## **CLAIMS**

 Converter (1) of digital signals (11) received in modulated and multiplexed form, comprising means (21) for selecting (T1-Tn) at least one part of the said signals (11) by adjustment at at least one determined frequency and means for demodulating (DMD1-DMDn) the said parts, capable of producing at least one demodulated subsignal (12),

the said converter (1) also comprising:

- and means for transforming (24) said remultiplexed flow (14), designed to modify said remultiplexed flow (14) in compliance with specific criteria for transmission to recipient receivers (R1-Rn), said transformation means (24) being provided to modify said remultiplexed flow so as to make it comply with at least one communication protocol,

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characterized in that said converter (1) comprises a unit containing all of said means (21-24), as well as frequency downconversion means (41) of the digital signals received, upstream of said selection means (21).

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- 2. Converter (1) according to claim 1, characterized in that it is intended to convert digital signals (11) transmitted by satellite.
- 3. Converter (1) according to one of claims 1 or 2, characterized in that it is designed to convert digital signals transmitted on terrestrially, in accordance with a communication technique chosen from a local multipoint telecommunications system and a multipoint distribution system.

- 4. Converter (1) according to any one of the aforementioned claims, characterized in that at least one of said communication protocols is a protocol for communication to a digital network, preferentially chosen from among the standards Ethernet, IEEE1394, IEEE802.11a, Hiperlan2 and a powerline communication protocol.
- Converter (1) according to any one of the aforementioned claims, characterized in that the selection and demodulation means (21) are designed to select and demodulate transmission digital channels in order to produce said subsignals (12).
- 6. Converter—(1)=according—to—any—one—of—the—aforementioned—claims, characterized in that the demultiplexing means (22) are designed to extract audiovisual programmes constituting at least some of the said portions (13).
  - 7. Converter (1) according to claim 6, characterized in that the remultiplexing means (23) are capable of remultiplexing said portions (13) into MPEG transport streams constituting said remultiplexed flows (14).

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- Converter (1) according to any one of the aforementioned claims, characterized in that it also comprises means for extracting (25) transmission information (16) received from recipient receivers (R1-Rn), and in that the transformation means (24) are capable of determining the transmission criteria according to said transmission information.
- Converter (1) according to any one of the aforementioned claims, characterized in that it also comprises means for extracting (25) extraction information (16) received from recipient receivers (R1-Rn), and in that the transformation means (24) are capable of determining said subsignals (12) and said portions (13) according to said extraction information.

- 10. Converter (1) according to any one of the aforementioned claims, characterized in that it also comprises means for modulating (27) feedback signals (17) from recipient receivers (R1-Rn).
- 511. Converter according to any one of the aforementioned claims, characterized in that it comprises means for receiving other digital signals received in modulated and multiplexed form and chosen from among the signals transmitted by cable and signals transmitted terrestrially in the UHF and VHF bandwidth, the said selection (21), demultiplexing (22), remultiplexing (23) and transformation (24) means also being intended to be applied to the said other signals.
- 12. Conversion procedure for digital signals (11) received in modulated and multiplexed form, in which the received signals (11) are frequency downconverted, an adjustment at at least one determined frequency selects at least one part of said signals (11) and these parts are demodulated so as to produce at least one demodulated subsignal (12),

said procedure comprising the following stages:

- demultiplexing of said subsignals (12), so as to extract portions 20 (13) of said subsignals (12),
  - remultiplexing the said portions (13) extracted from at least one remultiplexed flow (14),
- and transformation of said remultiplexed flow (14) in accordance with specific criteria for transmission to recipient receivers (R1-Rn), so as to render the remultiplexed flow (14) compliant with at least one communication protocol,

characterized in that all said stages of frequency downconversion, frequency adjustment, demodulation, demultiplexing, remultiplexing and transformation are carried out by means of the same device (1, 51),

said	conversion	procedure	being	preferentially	impiemented	ру
means of a con	verter (1) in	accordance	with a	ny one of clair	ns 1 to 11.	